

Fig. 1

Study of the release of DNA at pH 5.0

fluorescence (%)

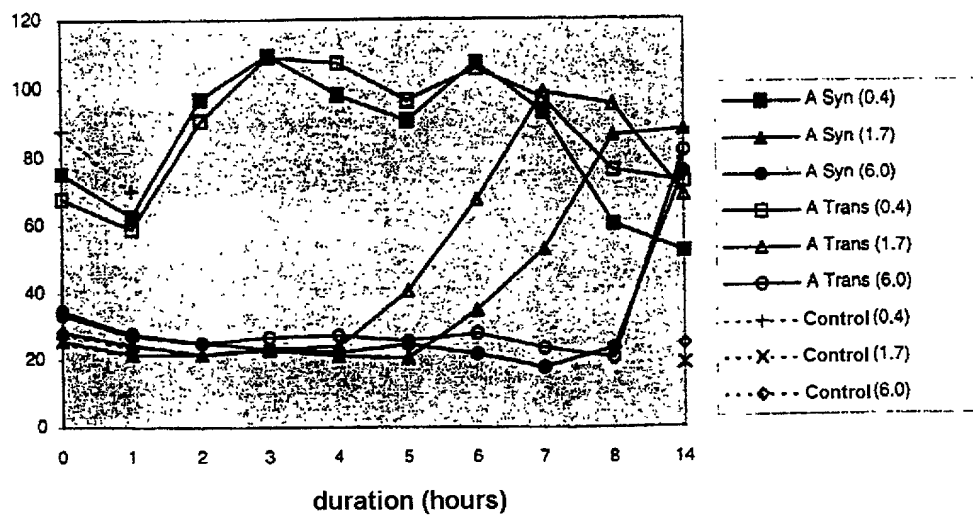


Fig. 2

**Efficiency of transfection *in vitro***

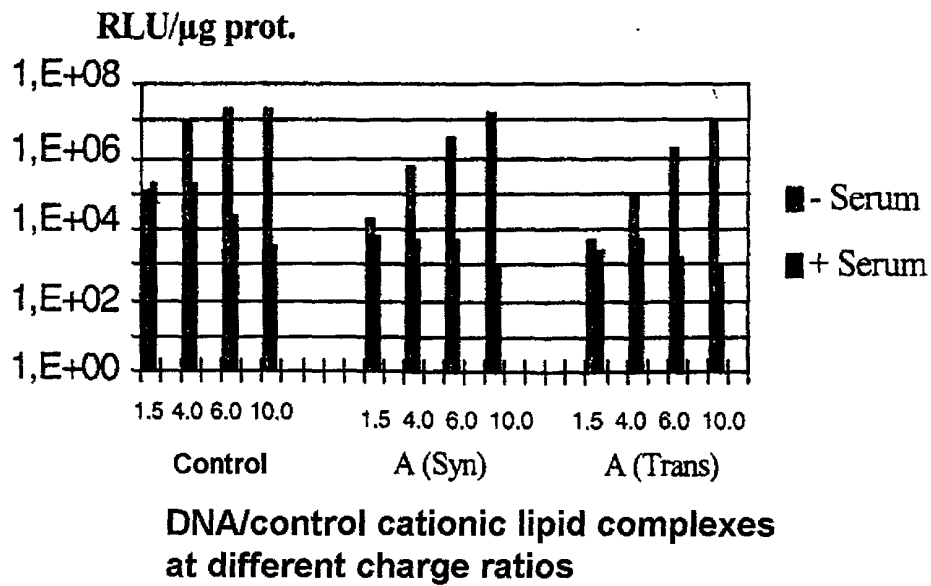


Fig. 3

**Stabilization of the nucleolipid complexes by compound C, compound D, BRIJ700 or analog D**

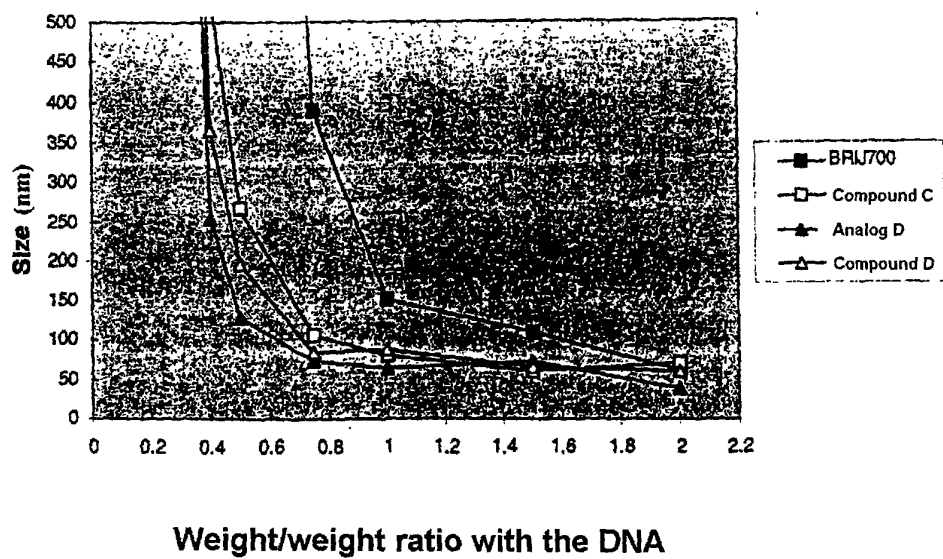


Fig. 4

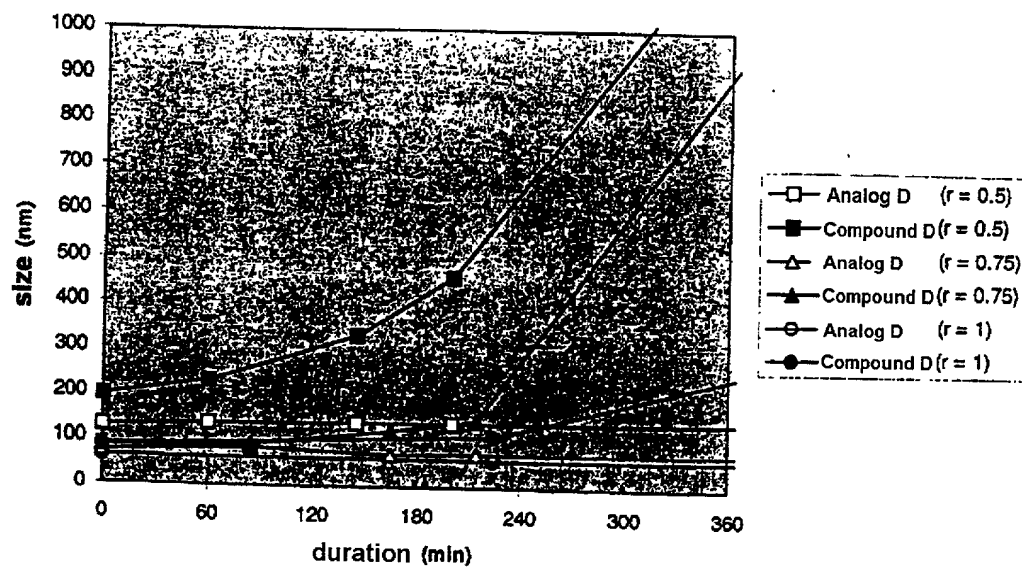
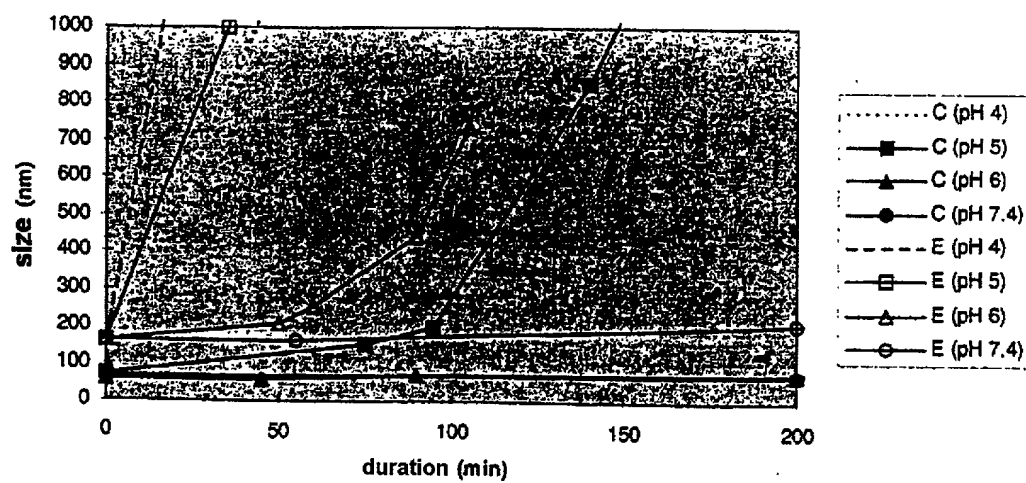
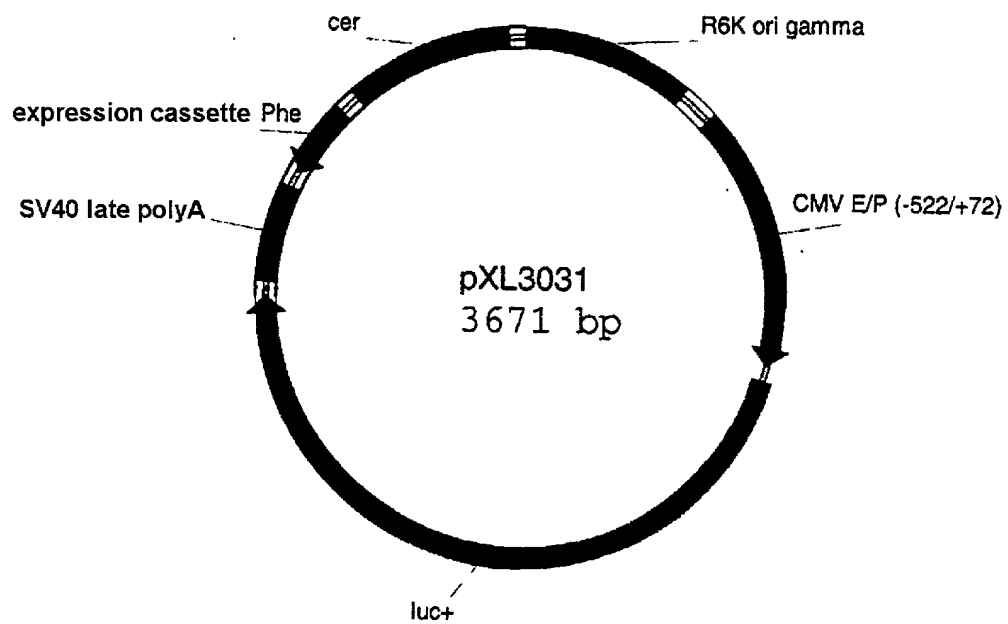


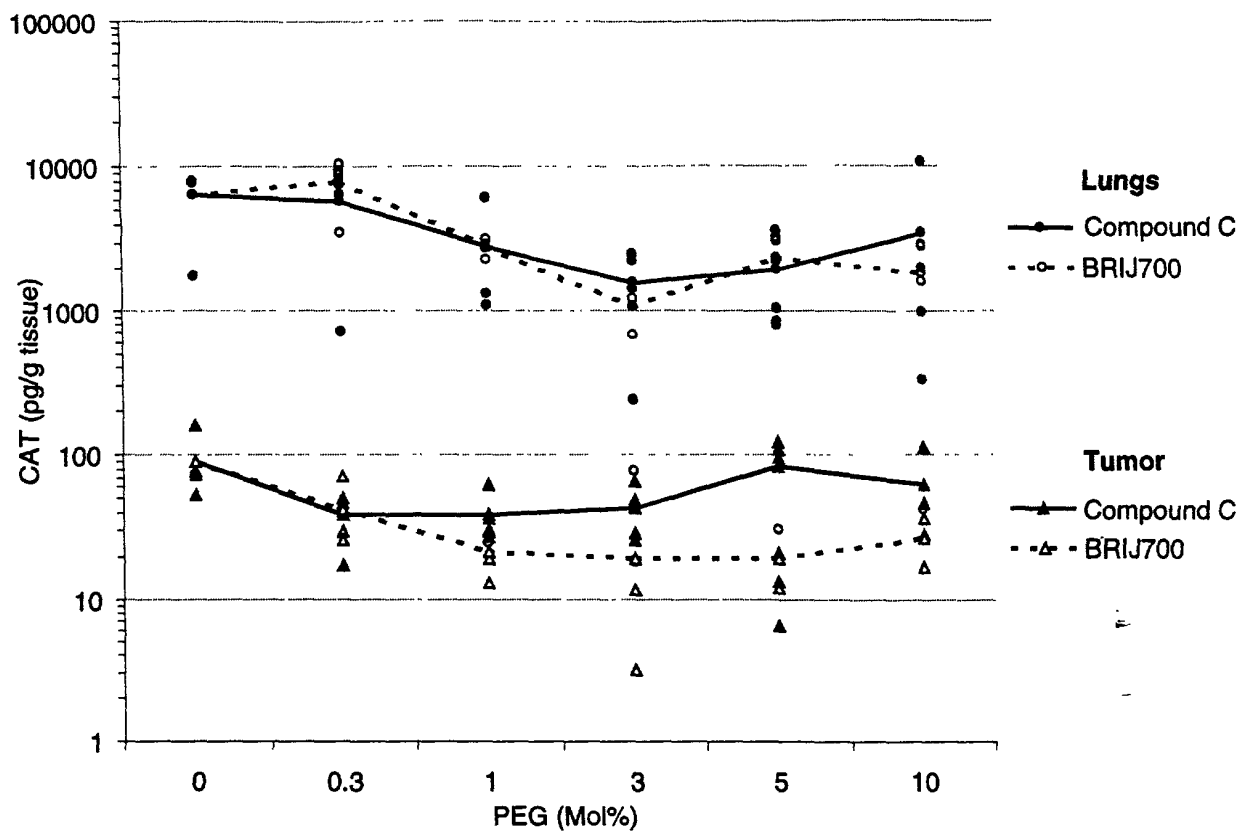
Fig. 5



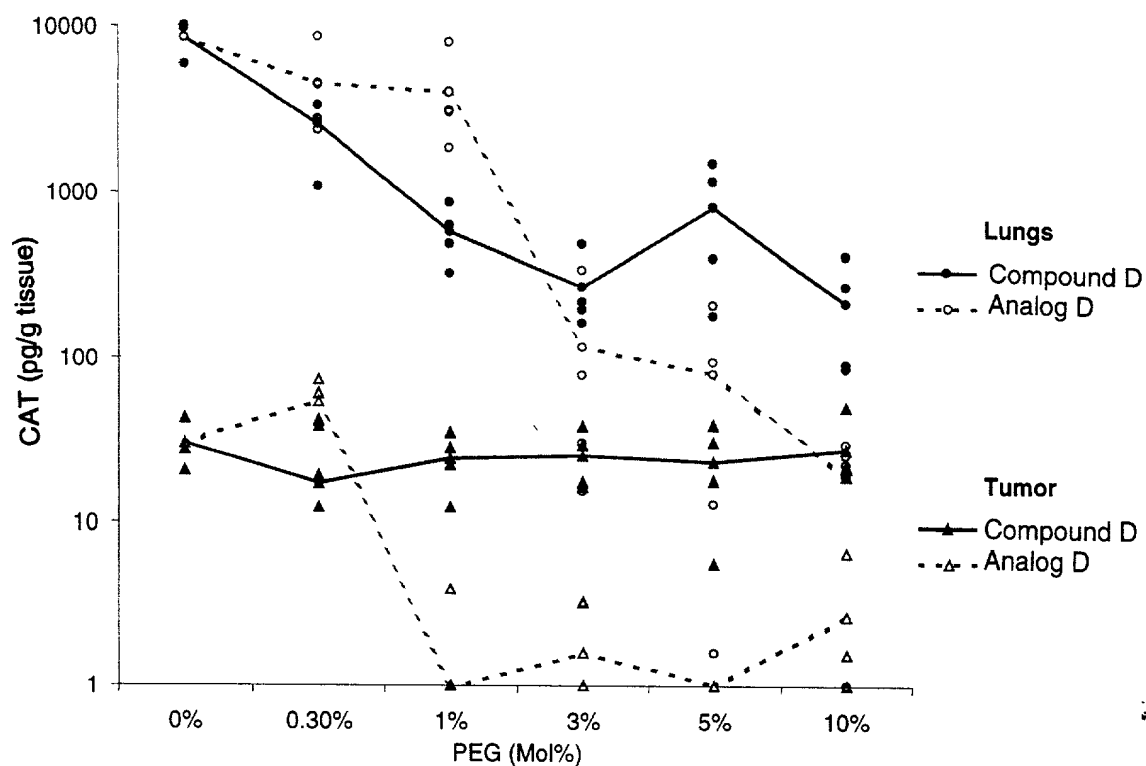
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Fig. 6





**Figure 7:** Dose response of pH labile C18-PEG<sub>5000</sub> (Compound C) on gene transfer activity in vivo mediated by a cationic lipid/DOPE/DNA (5/5/1) complex. Non-degradable C18-PEG<sub>5000</sub> (BRIJ700) was used as a negative control. Data are mean (lines) and individual values of 4 Balb/C mice bearing subcutaneous M109 tumor.



**Figure 8:** Dose response of pH labile cholesterol-PEG<sub>5000</sub> (Compound D) on gene transfer activity in vivo mediated by a cationic lipid/DOPE/DNA (5/5/1) complex. Non-degradable cholesterol-PEG<sub>5000</sub> (Analog D) was used as a negative control. Data are mean (lines) and individual values of 4 Balb/C mice bearing subcutaneous M109 tumor.